



**United States Environmental Protection Agency
Region 9 Laboratory**

**1337 S. 46th Street Building 201
Richmond, CA 94804**

Date: 9/15/2017

Subject: Analytical Testing Results - Project R17E01
SDG: 17243B

From: Peter Husby, Director
EPA Region 9 Laboratory
EMD-3-1

To: Janice Chan
Enforcement Division, Air Section
ENF-2-1

Attached are the results from the analysis of samples from the **Catalytic Converter Analysis FY2017** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Peter Husby, the Lab Project Manager at (510)412-2300.

Electronic CC: Matt Salazar, ENF-2-1
Andrew Zelling, Nathan Dancher, ENF-2-1
Elfego Felix, Kingsley Adeduro, ENF-2-1

Analyses included in this report:

Platinum Group Metals by XRF



United States Environmental Protection Agency
Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Janice Chan

Project Number: R17E01

Project: Catalytic Converter Analysis FY2017

Enforcement Division, Air Section

75 Hawthorne Street

San Francisco CA, 94105

SDG: 17243B

Reported: 09/15/17 10:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
LWGGCML04HA003398	1708089-01	Solid	08/29/17 00:00	08/31/17 11:30



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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1708089-01							Solid - Sampled: 08/29/17 00:00		
Sample ID: LWGGCML04HA003398							XRF Analysis of Platinum Group Metals		
Platinum		240		160	mg/kg	B17H152	09/12/17	09/13/17	XRF
Palladium		8,800		40	"	"	"	"	XRF
Rhodium		950		40	"	"	"	"	XRF

Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B17H152 - - General Biology - Platinum Group Metals by XRF					Prepared: 09/12/17 Analyzed: 09/13/17					
					XRF Analysis of Platinum Group Metals - Quality Control					
Blank (B17H152-BLK1)										
Platinum	ND	U		160 mg/kg						
Palladium	ND	U		40 "						
Rhodium	ND	U		40 "						
Blank (B17H152-BLK2)										
Platinum	ND	U		160 mg/kg						
Palladium	ND	U		40 "						
Rhodium	ND	U		40 "						
Reference (B17H152-SRM1)										
Platinum	730			mg/kg	697		105	85-115		
Palladium	280			"	326		86	85-115		
Rhodium	51			"	51.2		100	85-115		
Reference (B17H152-SRM2)										
Platinum	1,200			mg/kg	1130		103	85-115		
Palladium	230			"	233		98	85-115		
Rhodium	140			"	135		106	85-115		
Reference (B17H152-SRM3)										
Platinum	1,700			mg/kg	1780		98	85-115		
Palladium	280			"	279		101	85-115		
Rhodium	350			"	338		102	85-115		
Reference (B17H152-SRM4)										
Platinum	750			mg/kg	697		107	85-115		
Palladium	290			"	326		88	85-115		
Rhodium	53			"	51.2		104	85-115		
Reference (B17H152-SRM5)										
Platinum	1,200			mg/kg	1130		105	85-115		
Palladium	230			"	233		100	85-115		
Rhodium	140			"	135		105	85-115		
Reference (B17H152-SRM6)										
Platinum	1,700			mg/kg	1780		98	85-115		
Palladium	280			"	279		101	85-115		
Rhodium	360			"	338		106	85-115		



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Qualifiers and Comments

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.

VIN Number	Engine Family	SAMPLE ID	Catalyst Type	Substrate Len.	Substrate Dia.	Substrate Vol.	Substrate Area	Cells	CPSI
				(cm)	(cm)	(cm ³)	(in ²)	#	
LWGGCML04HA003398	HHSNX.196GK1	1708089-01	Honeycomb	3.99	3.98	49.5	1.93	569	296

VIN Number	Engine Family	SAMPLE ID	Pt	Pd	Rh	Ratio	Active Material
			mg/Kg	mg/Kg	mg/Kg	Pt:Pd:Rh	Loading (g/ft3)*
LWGGCML04HA003398	HHSNX.196GK1	1708089-01	245	8779	946	1:36:4	41

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

CBP Cook

OFFICE OF
ENFORCEMENT AND
COMPLIANCE ASSURANCE

I, Janice Chan of USEPA hereby certify I
Name Business/Agency

removed the following item; Exhaust system. I marked the item with:

VIN or ESN: LWGGCML04HA003398

The item is from Entry No.: 1AR-0282141-1 Date Removed: 8/29/2017

From a: 2017 Hisun Motor Corp KT196
Year Make Model

Allegedly covered by USEPA Engine Family: HHSNX.196GK1
Engine Family

I further certify on 8/30/2017, I secured the described item prior to shipping it.

CHAIN OF CUSTODY						
Released By:		Date and Time	Received By:		Date and Time	Remarks
Name <u>CBP Cook</u>	<u>8-30-17/1015</u>	Name <u>Janice Chan</u>	<u>8/30/17 1015</u>			
Organization <u>CBP</u>	Seal Intact? Y,N, Comment	Organization <u>USEPA</u>	Seal Intact? Y,N, Comment			
Signature <u>[Signature]</u>		Signature <u>[Signature]</u>				
Name <u>Janice Chan</u>	<u>8/30/17 14:50</u>	Name <u>Janice Avelo</u>	<u>8/31/17 - 11:30</u>			
Organization <u>USEPA</u>	Seal Intact? Y,N, Comment	Organization	Seal Intact? Y,N, Comment			
Signature <u>[Signature]</u>		Signature				
Name		Name				
Organization	Seal Intact? Y,N, Comment	Organization	Seal Intact? Y,N, Comment			
Signature		Signature				
Name		Name				
Organization	Seal Intact? Y,N, Comment	Organization	Seal Intact? Y,N, Comment			
Signature		Signature				
Name		Name				
Organization	Seal Intact? Y,N, Comment	Organization	Seal Intact? Y,N, Comment			
Signature		Signature				

Version: July 2015

Enforcement Confidential – Do not release under FOIA

Sample Receipt Checklist

Note in WO memo any items outside acceptable limits.

Project No: R17E01 Work Order No(s): 1708089 Date 08/31/17 by PA

CUSTODY SEALS Are Intact? ☐ Yes ☐ No ☒ N/A- None
Check if applies: ☐ External Seals ☐ Internal Seals ☐ Hand Delivered

TEMPERATURE 22 °C
Within Acceptable Range? (If preservation is "store cool at 4°C," use 0-6°C for acceptable range.) ☐ Yes ☐ No ☒ Ambient OK
Measured by: ☒ IR thermometer ☐ Probe thermometer inserted in provided temp. blank
☐ Provided Temp Blank was not used because _____
Check if applies: ☐ Sufficient ice present ☐ Still cooling (sampled today & iced)
☐ Insufficient/Melted Ice ☐ Delivery Delay ☐ Previously Frozen

SAMPLE CONTAINERS Are Intact? ☒ Yes ☐ No
Check if applies and identify sample IDs in comments:
☐ Bottle/Jar/Vial broken ☐ Cap broken or loose ☐ Insufficient sample amount
☐ Other _____

CHAIN OF CUSTODY

COC forms are present? ☒ Yes ☐ No
COC forms are complete and consistent with sample labels? ☒ Yes ☐ No ☐ N/A-no COC form
Check if applies: ☐ Not relinquished ☐ Inconsistency resolved ☐ Follow-up needed (see comments)
TAT and analyses match TDF or scheduling? ☒ Yes ☐ No
Check if applies: ☐ Preliminary Results ☐ Rush Request ☐ 7-day TAT
Samples are received within hold times? ☐ Expires today ☒ Yes ☐ No ☐ N/A-no hold times
All shipping and sample containers are accounted for? ☒ Yes ☐ No

PRESERVATION / FILTRATION Is Required? ☐ Yes ☒ No

If yes, continue below. If no, mark N/A for the following:

Samples were preserved and/or filtered in field? ☐ Yes ☐ No ☒ N/A
If no, check if applies: ☐ Analyst to filter and/or preserve ☐ Sample Receiving to preserve (see page 2)
If yes, preservation and/or filtration are correctly identified on samples? ☐ Yes ☐ No ☒ N/A
If yes, field-preserved samples (non-VOA vials) have correct pH? ☐ Yes ☐ No ☒ N/A

Metals: pH <2 ☐ HNO₃ Sulfide: pH >9 ☐ NaOH/Zinc acetate Cr6: pH >8.5 ☐ _____
Ferrous Iron: pH <2 ☐ HCl Cyanide: pH >12 ☐ NaOH (if <8.5, must be adjusted to 8.5-9.5)
TOC/DOC: pH <2 ☐ H₂SO₄/H₃PO₄ (HCl is not allowed for available instrumentation [i.e., problem])
Ammonia /NO₃/NO₂/TKN /Phosphorus: pH <2 ☐ H₂SO₄ Other: _____

FOLLOW-UP / COMMENTS / UNUSUAL CHARACTERISTICS OBSERVED (for example, sample is pink):